

Product datasheet for **RN200309**

Slc7a2 (NM_001134686) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a2 (NM_001134686) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc7a2
Synonyms:	Cat2; Cat2a; Cat2b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200309 representing NM_001134686
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATTCCCTGCAGAGCAGTGTGACTTTCACACGATGTCTGATCCGGAGAAAAATTGTCACTGGACA
 GTCTGGAAGATCCAAACTCTGCCGCTGCTTAACCACCATGGACCTCATCGCCCTGGGAGTTGGAAGCAC
 TCTCGGCCTGGGGTTTACGTCCTGGCTGGAGAAGTCGCCAAAGCTGACTCCGGCCCTAGTATTGTGGTG
 TCTTCTCATCGCTGCCCTGGCTTCGGTATGGCCGGCCTTTGCTACGCTGAATTTGGGGCCGAGTAC
 CAAAGACTGGATCTGCGTATCTATACACATACGTACGTTGGAGAGCTGTGGCCTTCACACTGGTTG
 GAATCTCATTCTGCATATGTCATAGGTACGTCCAGTGTGCAAGAGCTTGAGTGGCACCTTCGATGAG
 CTTCTTAAACAACAGATTGGCCAGTTTTTCAAGACCTACTTCAAATGAATTACACCGTCTGGCGGAGT
 ATCCGGACTTCTTGGCCTGTGCCTTGATTACTTCTGGCAGTCTTTTATCTTTGGAGTAAAGGAGTC
 TGCTTGGGTGAATAAATTTTTACAGCTATTAATCCTGGTCTCTCTTTGTCATGGTGGCTGGGTTT
 GTGAAAGGAAATGTGGCTAACTGGAAGTACAGTGAAGAATTTCTCAAGAATATATCAGCAAGTGCCAGAG
 AACCACCTTCTGAAAATGGAACAAGCATCTACGGGGCTGGCGGCTTCATGCCCTTATGGCTTACAGGGAC
 GCTGGCTGGTGTGCAACGTGCTTTATGCCTTTGTGGGCTTTGACTGCATTGCAACAACCGGCGAAGAG
 GTCCGGAATCCCCAAAAGGCTATCCCATTTGGAATAGTAACTTCTTACTTGTGTTGCTTTATGGCCTATT
 TTGGGGTTTCTGCAGCTTAACTTATGATGCCTTACTACCTCTGGATGAGAAAAGCCCACTCCCTGT
 TGCATTTGAATATGTCGGATGGGTCTGCTAAATACGTTGTGCGCGCAGGCTCCCTCTGCGCCTTATCA
 ACAAGTCTTGGATCCATTTCCCAATGCCTCGTGAATCTATGCTATGGCGGAGGATGGGTTGCTTT
 TCAAATGTCTAGCTCAAATCAATTTCCAAAACGAAGACACCAATAATTGCTACTTTGTCATCGGGTGCAGT
 GGCAGCTGTGATGGCCTTCTTTTTGACCTGAAGGCTCTCGTGGACATGATGTCTATTGGCACCCCTCATG
 GCCTACTCTCTGGTGCAGCCTGTGTGCTCATTCTCAGGTACCAACCTGGCTTGTGTTATGAGCAGCCCA
 AATACACCCTGAGAAAGACATTCTGGAGTCAATGACCAATGCGACCTCGAAGAGCGAGTCCAGGTAC
 CATGCTGCAAGGACAGGGTTTCAGCCTACGAACCTCTTCAACCCTCTGCTCTGCCACACGACAGTCA
 GCCTCCCTCGTGAGCTTCTGGTGGGATTCCTGGCTTCTCTATCGCCGCTTGGTATTCTGACCAGT
 ACGGAGTCCAGGCCATCGCCAGACTGGAAGCCTGGAGCCTGGCTTCTCGCCCTGTTCTTGTCTCTG
 CGCTGCCGTATCCTGACCATTGGAGGACCCACAGAATCAGCAAAAAGTAGCCTTCATGGTCCCGTTC
 TTACCGTTTCTGCGGCCTTCAAGCATCCTGGTCAACATTTACTTGATGGTCCAGTTAAGCGCGGACACTT
 GGGTCAGATTGAGCATCTGGATGGTGTGGCTTCTGATTTACTTTCGCCTATGGCATTAGACACAGCTT
 GGAGGGTAACCCAGGGATGAAGAAGAAGATGAAGATGTCTGTCAGACAACGTCAATGCAGCAGCAGAA
 GAAAAGTCTGCCATGCAGGCAAATGACCATCACCAAGAAACCTCAGCTTGCCTTTCATACTTCATGAAA
 AGACAAGTGAATGTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001134686
- Insert Size:** 1977 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001134686.2](#), [NP_001128158.1](#)

RefSeq Size: 2500 bp

RefSeq ORF: 1977 bp

Locus ID: 64554

UniProt ID: [B5D5N9](#)

Cytogenetics: 16q12.1

Gene Summary: a glomerular cationic amino acid transporter which transports L-Arginine [RGD, Feb 2006]
Transcript Variant: This variant (2) uses an alternate in-frame exon in the coding region compared to variant 1. The resulting protein (isoform b) is longer but has the same N- and C-termini compared to isoform a.